

Customer No.: 31561
Application No.: 10/604,689
Docket No.: 10870-US-PA

AMENDMENTS

To the Claims:

1. (currently amended) A pixel array for a non-touch panel input device, wherein the pixel array at least comprises a plurality of first pixel structures with each pixel structure at least comprising:
 - a sub-pixel; and
 - a first shadow pixel set up in a non-transparent region of the pixel structure positioned on one side of the sub-pixel.
2. (original) The pixel array of claim 1, wherein the first shadow pixel is fabricated using a material capable of producing electromagnetic radiation in the invisible portion of the light spectrum.
3. (original) The pixel array of claim 1, wherein the first shadow pixel is set to emit electromagnetic radiation either in a first electromagnetic radiation state or in a second electromagnetic radiation state such that the first and the second electromagnetic radiation states are different from each other.
4. (original) The pixel array of claim 3, wherein the first shadow pixel in the first electromagnetic radiation state has a length or width different from the first shadow pixel in the second electromagnetic radiation state.
5. (original) The pixel array of claim 3, wherein the first shadow pixel in the first electromagnetic radiation state has a reflectivity different from the first shadow pixel in the second electromagnetic radiation state.

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6. (original) The pixel array of claim 3, wherein the first shadow pixel in the first electromagnetic radiation state radiates with a wavelength different from the first shadow pixel in the second electromagnetic radiation state.
7. (original) The pixel array of claim 3, wherein the first shadow pixel in the first electromagnetic radiation state is fabricated using a material different from the first shadow pixel in the second electromagnetic radiation state.
8. (original) The pixel array of claim 1, wherein each first pixel structure furthermore comprises a second shadow pixel positioned on the other side of the sub-pixel.
9. (original) The pixel array of claim 8, wherein the second shadow pixel is fabricated using a material capable of producing electromagnetic radiation in the invisible portion of the spectrum.
10. (original) The pixel array of claim 8, wherein the second shadow pixel is set to emit electromagnetic radiation either in a third electromagnetic radiation state or in a fourth electromagnetic radiation state such that the third and the fourth electromagnetic radiation state are different from each other.
11. (original) The pixel array of claim 10, wherein the second shadow pixel in the third electromagnetic radiation state has a length or width different from the second shadow pixel in the fourth electromagnetic radiation state.
12. (original) The pixel array of claim 10, wherein the second shadow pixel in the third electromagnetic radiation state has a reflectivity different from the second shadow pixel in the fourth electromagnetic radiation state.

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13. (original) The pixel array of claim 10, wherein the second shadow pixel in the third electromagnetic radiation state radiates with a wavelength different from the second shadow pixel in the fourth electromagnetic radiation state.
14. (original) The pixel array of claim 10, wherein the second shadow pixel in the third electromagnetic radiation state is fabricated using a material different from the second shadow pixel in the fourth electromagnetic radiation state.
15. (original) The pixel array of claim 1, wherein the pixel array furthermore comprises a plurality of second pixel structures with each second pixel structure at least having a sub-pixel without a first shadow pixel such that the sub-pixel in each second pixel structure is located in a position corresponding to the sub-pixel of the first pixel structure.
16. (original) The pixel array of claim 15, wherein each second pixel structure furthermore comprises a second shadow pixel positioned on the other side of the sub-pixel corresponding to the second shadow pixel in the first pixel structure.
17. (original) The pixel array of claim 16, wherein the second shadow pixel is fabricated using a material capable of producing electromagnetic radiation in the invisible part of the spectrum.